Technical data sheet

Lightning arrester, 1-pole

Item number: 5096847

Type 1 lightning arrester in accordance with DIN EN 61643-11 for interface 0 to 1 (LPZ) to and/or in accordance with lightning protection concept to IEC 61312-1 and/or VDE 0185-305 (IEC 62305)

- Cover and base, plug-in cover
- Arresting capacity 50 kA (10/350 µs) per pole
- Voltage protection level < 2.0 kV
- Line following current quenching 25 kA Ipeak
- Incl. plug caps for labelling the connections
- Encapsulated, non-extinguishing spark gap: can be used in standard distributor housings

Application example: Industrial plants; lightning arrester in accordance with VDE-AR-N 4100 for pre-meter area.

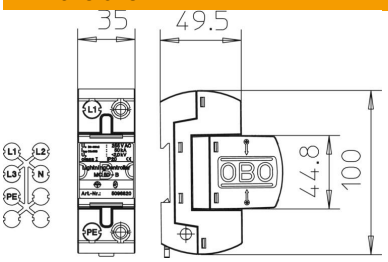
Note: Requires as a decoupling length for surge protection 5 m of cable.

230/ 400 V System | Type 1 | LPZ 0→1

Master data

Item number	5096847
Type	MC 50-B VDE
Description 1	LightningController
Manufacturer	OBO
Dimension	255V
Smallest sales unit	1
Unit of quantity	Piece
Weight	34.4 kg
Weight unit	kg/100 pc.
CO2 Footprint (GWP) Cradle-to-Gate	2,0131 kg CO2e / 1 Piece

Dimensions



Length	100 mm
Width	35 mm
Height	69 mm

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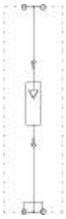

Arrester surge current (8/20 µs) [total]	50 kA
Response time	<100 ns
Blow-out	no
Version for	1-pole complete; 255 V
Pole version	1
Structural width in division units (division unit, 17.5 mm)	2
Operating temperature, max.	85 °C
Operating temperature, min.	-40 °C
Lightning surge current (10/350 µs)	50 kA
Lightning surge current (10/350)	50 kA
Explosion-tested version	no
Remote signalling	no
Follow current quenching capacity (eff) [N-PE]	10 kA
Follow current quenching capacity leff	12.5 kA
Maximum continuous voltage AC	255 V
Short-circuit resistance	25 kA
Short-circuit resistance for max. mains-side overcurrent protection	25 kA
Conductor cross-section, rigid (single-wire/multiwire), max.	50 mm²
Conductor cross-section, rigid (single-wire/multiwire), min.	10 mm²
Lightning protection zone LPZ	0→1
Max. mains-side overcurrent protection	500
Maximum back-up fuse	500 A
Installation type	DIN rail 35 mm
Nominal discharge current (8/20 µs)	50 kA
Nominal voltage AC (50/60 Hz)	230 V
Network form	Other
Test class, type 1	yes
ROHS-conformant	yes
Protection rating	IP20
Protection level	≤2,0 kV
Signalling on device	None
SPD to EN 61643-11	Type 1
SPD to IEC 61643-11	Class I
SPD to UL 1449	Type 1
Permitted temperature range, max.	85 °C
Permitted temperature range, min.	-40 °C